

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Brien Pepperdine <pepperb@gov.on.ca>  
Subject: 390A serial number/contract plate missing  
Message-ID: <Pine.OSF.3.93.960624213248.15313A-100000@govonca2.gov.on.ca>

In regard to 390A receivers missing the serial number plate. I guess there are a multitude of reasons why the metal plate got removed at some point down the line over the years... but if it has, what does the ink stamped number underneath where the plate would have been indicate? Is it in fact the serial number put on during production, which would in the end be the number stamped into the metal plate along with the production contract number, at some point toward the end of production? We are speculating that a finishing step would be attach knobs, counter cover and a stamped serial number/production contract number plate, as a last step once the front panel was affixed. Anyone concur?

Reason is curiosity... both myself and a friend have panels with no plate, but there is the ink stamped number (4918), we figured might be the real code. Or something else.  
At least in my case the number of Stewart-Warner parts inside and contract number on at least one major part leads me to call it a 1960 Stewart-Warner (for what its worth, since many of them have had some module transferred in or out over the years).

My friend's plate is missing, and he speculates it might have something to do with a cover that was meant to swing down over the lit counter to preserve darkness/not allow the light to be seen from above. This perhaps required the plate to be removed so the light shield could be affixed. Or perhaps not. Anyhow, its part of the history we are all curious about as to how they were used.

Brien  
Toronto  
VE3VAW

pepperb@gov.on.ca

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: Spencer Petri <spetri@e-tex.com>  
Subject: Another BA  
Message-ID: <m0uYDyX-0002WpC@e-tex.com>

Hi GANGsters,

Just acquired what may be the ultimate BA tube tester.

Windsor model 45a Valve Tester which is apparently built by Taylor Electrical Instruments Ltd. in GB.

This thing tests the following types of valves, er, tubes.

- 6 pin American
- 5 pin American
- 4 pin American
- 5 pin British
- 7 pin British
- 8 pin Mazda
- 9 pin glass, British
- 7 pin American
- 8 pin Telefunken, German
- 8 pin side contact, European
- 5 pin side contact, European
- 8 pin International Octal No. 1
- 8 pin International Octal No. 2
- 8 pin Loctal International
- 7 pin Glass International No. 1
- 7 pin Glass International No. 2
- 9 pin Miniature glass, International
- 8 pin Miniature glass, lock-in, European
- 3 pin glass, British
- one unknown socket

Got it for the world's lowest price with two books, so thought I ought to let it follow me home.

Anybody had any experience with this beast?

73 de Pete WA5JCI

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: wb6zwc@ns.net  
Subject: another Grid Dip Meter  
Message-ID: <199606242325.QAA06062@tomcat.ns.net>

Somebody wanted a Grid Dip Meter. I have found one and it is for sale. Has a copy of the manual. Millen 90651; s/n 3528.

=====  
Wanted 312-B3  
Richard@Sacramento,Ca.

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: BOEING377@aol.com  
Subject: Re: BC 221 & LM, how were calibration books made?  
Message-ID: <960624143035\_420664981@emout18.mail.aol.com>

I was wondering how the individualized calibration books for BC 221 and LM frequency meters were made. I've never seen one with obvious erasures or corrections which leads me to believe that they were automatically printed, but I can't see how this was done with 1941 technology. I'm sure someone out there in BA land knows the answer. Thanks for any info.

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: Ornitz\_Barry <ornitz@eastman.com>  
Subject: Crystal Impedance Meters  
Message-ID: <199606241606.AA08790@eastman.com>

In an off-line discussion with Mike Rowlands, VA3MR, about sluggish crystals in his Drake transmitter, he mentioned that his crystals WOULD oscillate in a test oscillator (at their fundamental, which is normal). I mentioned that it would be handy to test these crystals on a crystal impedance meter, but that I did not have one.

I have occasionally seen these surplus, particularly from Tucker at what I consider an excessive price (as is everything Tucker has). I have never seen one of these at a hamfest, however.

Does anyone on the list have one that they wish to sell inexpensively? Barring this, does anyone have the manuals for such meters? I would be interested in what type of circuit they use. Thanks.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Ray L. Mote" <rmote@rain.org>  
Subject: Re: Drilling Glass  
Message-ID: <Pine.SUN.3.93.960623233639.8317A-100000@coyote.rain.org>

Last time I was in a plastics store, they had both glass and plastic drill bits. You might check your local source of plastics, in case they also carry glass drills. Alternate: check your local glass shop (window, auto glass, etc.) -- they should be able to point you in the right direction, if they don't have a bit they'll sell you from their own stock.

73.....Ray Mote, W6RIC <rmote@rain.org> Oxnard, CA

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Jim Berry" <basalop@eskimo.com>  
Subject: Re: drilling glass  
Message-ID: <199606240850.BAA29978@mail.eskimo.com>

> Date: Sun, 23 Jun 1996 19:37:00 -0500 (CDT)  
> Reply-to: jherman@hawaii.edu  
> From: Jeffrey Herman <jherman@hawaii.edu>  
> To: Multiple recipients of list <boatanchors@theporch.com>  
> Subject: drilling glass

> I'm putting up a vertical and would like to use a beer bottle as an  
> insulator for the base.

HI Jeff,

I have used bottles for base insulators before with FB results, but never have drilled holes in them. The vertical antenna section simply sets on the bottles shoulder and coax center wire is attached at a point just above the bottles top. Radials are attached to the shield. I used a Coke bottle because they have more glass to them and I would assume are stronger. I also filled the bottle with oil and put the cap back on. Reason for the oil is to keep water from collecting in the bottle, freezing, and breaking the thing. Of course where you live, it never gets that cold, but something for other fellas who do to keep in mind.

> Jeff C00RS / KH2PZ

73 Jim K7SLI

\*\*\*

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)

Email: basalop@eskimo.com FAX: 360-659-1360

Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA

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From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>  
Subject: Drilling Glass  
Message-ID: <199606241140.GAA12760@legend.txdirect.net>

A couple more obvious suggestions. When I've needed glass drilled I've taken the glass to a local stained glass studio. They drill glass all the



From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: KA9EGW@aol.com  
Subject: drilling glass  
Message-ID: <960624114625\_141640260@emout08.mail.aol.com>

used to be a glass machinist for Zenith; what we did was machine a carbide bit to the shape of the inside of the desired cavity less .020", and set it vibrating at about 10 kHz, then slowly lower it into the glass workpiece while running a steady stream of valve-grinding compound and water mixed to form a thinn slurry over the drill site.

For drilling a straight hole, a piece of oil-hardening drill rod attached to the movable magnet in a tweeter sans cone, driven by an audio generator and stereo amp and clamped in a drill press should do--but the steady flow of abrasive slurry is a necessity; if the hole runs dry the workpiece will shatter.

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Barry L. Ornitz" <u856010@eastman.com>  
Subject: RE: Drilling Glass  
Message-ID: <Pine.ULT.3.91.960624113732.6394C-1000000@dua150.kpt.emn.com>

Jeff Herman, COORS, asked about drilling glass...

Most large hardware stores have drills for glass and ceramic tiles. Use a VERY light pressure and with water cooling if the drill specifies this. A Dremel grinding tool will work too with an abrasive bit rated for glass (generally called a green stone).

Since you are at a university, you might just share one of those Coors with the university glassblower in the chemistry department. He will be able to make a nice smooth hole and even stress-relieve (anneal) it for you. Because Eastman provides considerable business, we have a local laboratory glass supplier with glassblowers on site. These are generally very talented people and they love to have someone admire their unique skills. The guys I know would be glad to provide the holes as long as they could personally empty the bottles!

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Bob Roehrig <broehrig@admin.aurora.edu>

Subject: Re: drilling glass

Message-ID: <Pine.ULT.3.91.960624125211.22222B-100000@admin.aurora.edu>

On Mon, 24 Jun 1996, Jeffrey Herman wrote:

> Thanks, Jim. The problem is that the vertical's diameter is less than  
> that of the bottle - it will be inside the bottle.  
>

Why don't you just use a piece of PVC pipe?

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI  
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996

From: lkayser@rideau.net (Larry Kayser)

Subject: Drilling Glass

Message-ID: <199606242323.TAA29360@mail.peterboro.net>

I wanted to get a wire through a glass window in an apartment once and I went to the store and they sold me a "glass drill". It looks to me like a Carbide tipped 1/8 inch drill. It drills glass in a minute or two, up to 1/4" thick. I have drilled many bottles with it in a few minutes. I got the drill in the same department that I used to buy Dremmel bits in.

You can win pocket money by betting you can sink a bottle by tossing it into the water. The hole in the bottom really makes it sink in a minute or so! Hard on the ecology, not recommended anymore.

I learned the hard way, never try to drill stressed glass like automobile glass or some forms of plate glass - they tend to shatter in my experience. It seems that these hardened glass types have a high strength surface and then things go soft in a hurry - the temperature change is more than they can take.

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996

From: "Andy Howard, WA4KCY" <102452.362@CompuServe.COM>

Subject: Re: Drilling Holes in Glass

Message-ID: <960624120058\_102452.362\_DHT63-3@CompuServe.COM>

Glass may be drilled using a drill press, valve grinding compound and rigid copper tubing of the proper size. The tubing acts like a drill bit and the valve

grinding compound as the cutting agent. This was the accepted method before the advent of carbide tipped drill bits. It is however, a labor intensive project. Not sure if modern beer bottles are heavy enough to tolerate holes or not. Some of the older books on electricity described static generating machines in which holes had to be drilled into the glass plates to accommodate the shaft.

Good luck. Glass breaks easily.

Regards,

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Andy Howard, WA4KCY

AMI #9, SE Director

<><

102452.362@compuserve.com

wa4kcy@usa.net

wa4kcy@juno.com

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Home Page:

<http://ourworld.compuserve.com/homepages/sweetbay>

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"Those who do not remember the past are  
condemned to relive it."

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996

From: bhall@GP802.jsc.nasa.gov (Hall, Benjamin D.)

Subject: Drilling holes in glass

Message-ID: <1996Jun24.082309.1425.637194@jsc-ems-hub02.jsc.nasa.gov>

This may be a little off topic, but I believe that it has enough value to warrant posting it here. So the next time you need to make dial scales, insulators, or whatever for BA's out of glass, here is a procedure my father (an Optical Engineer with NASA/MSFC) suggests... I believe you could modify this procedure to cut other shapes if you wanted.

---forwarded---message---below---

To drill a hole in a beer bottle, I would:

- 1) Get a piece of tubing, iron, copper, what ever, with an OD a few thou smaller than the hole to be drilled.
- 2) Chuck the tube up in a slow running drill press
- 3) Clamp the bottle in a vise, wood on either side, and clamp on drill press table so that the tube will drill the hole in the right place.



4) Use valve grinding compound mixed with water as the abrasive, and use the tube to core drill the hole. Use the medium grit or heavier compound depending on the hole finish wanted. Smear the compound on the core and glass and run the core drill into the glass. When coring the hole, you have to "pecker drill". This is raising and lowering the core drill to allow fresh abrasive into the kerf and let the swarf out. Every time you raise the drill, use a small brush to wipe fresh compound into the kerf. You will get the feel of it quickly. When you raise and lower the drill with fresh compound in the kerf, you will feel and hear it cut like a new file as first and then slow down. You shouldn't press too hard. Also, worry about breaking thru at the end of the cut. You can build a dam of model clay or such to keep the water and compound in place. Speed is limited by keeping water and compound where you want it. Too fast and nothing stays on the drill and the glass. Breaking thru is critical. The bottle may not be well annealed and the breakout may cause a failure, or the breakout may cause a fracture that may run.

Enjoy!

73,

Ben

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BHall@gp802.jsc.nasa.gov

and: BDHall@ghgcorp.com

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996

From: wb6zwc@ns.net

Subject: ERP

Message-ID: <199606242322.QAA05875@tomcat.ns.net>

Before it was closed Voice of America here locally ran 200kw to a Stubin Curtain with 30 db of gain. You could almost see the beam of RF.

=====

Wanted 312-B3

Richard@Sacramento,Ca.

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996

From: "Christopher A. Bowne" <radiobwn@q.continuum.net>

Subject: For The Well Dressed BA Collector

Message-ID: <199606240624.CAA12199@q.continuum.net>

Whilst strolling through downtown Mystic with the XYL on a delightful summer evening this weekend, I saw that the Army-Navy store had an unusual set of long johns on display. They were identified as "Microwave Radiaton Proof Suit". They seemed to be made of a conductive(?) mesh material - about the same mesh size as a window screen. The mesh seemed to have a coppery color to it. They looked like nuclear radiation worker "anti-Cs", but made from the mesh rather than cloth.

What were these used for - working in areas such as on masts in close proximity to active radiators, when the tactical situation precluded the "Do not raise, lower, rotate, or radiate from any mast or antenna" requirements?

Can anyone think of any other uses?

73,

Chris Bowne, AJ1G  
Stonington, CT  
radiobwn@q.continuum.net  
AMI No. 211

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: lstolz@tekelec.com (Lynn Stolz)  
Subject: Re: For Trade: Hallicrafters, Hammarlund, Collins  
Message-ID: <9606241218.AA07882@london.oh.tekelec.com>

> >  
> Collins KW-1  
> Still in the shipping box, never opened.  
> I was afraid to open and look at it.  
> Heavenly lights shine out of the cracks  
> in the box when you touch it and you hear  
> the sounds of all the Collins engineers  
> who've gone on to their reward singing  
> praises to Art.  
> Spares box included, but no singing when  
> you touch this one. It does make a noise  
> like a parts clerk grumbling, though.  
> Trade value about \$1,672,386.72  
>  
> 73 DE Dave Stinson AB5S  
> 5041 N. Maverick St.  
> Las Vegas, Nevada 89130  
> arc5@ix.netcom.com  
>  
Dave,

You've been watching "Raiders of the Lost Ark" again. Will you throw-in a felt fedora and bull whip? I have the ignition key for U-505 plus a signed duplicate of T.O.M.'s Wouff-Hong, and a RARE QSL card from 5Y3GT I'd like to trade for it.

Best regards,  
Lynn, N8AJ

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: RhyneK@aol.com  
Subject: FS: 7360 Tubes  
Message-ID: <960624231644\_421042846@emout13.mail.aol.com>

I am putting up for sale 4 new old stock 7360 tubes. These tubes are all RCA and boxed. I am asking \$25.00 each on these tubes. The AES price is \$41.20.  
If interested, please contact me here via e-mail.

de KA1CX

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
Subject: FS: Hallicrafters

Anyone want a really nice S-38C and a fair S-38C for \$100/both?

Tha nice one is complete, the fair one is missing the bottom and back and has one wrong knob.

Thanks and Best Regards,

Rick

----- Forwarded message ends here -----

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: "Sandy, W5TVW" <70401.134@CompuServe.COM>  
Subject: FS: National rcvr.

Message-ID: <960625031120\_70401.134\_IHD87-1@CompuServe.COM>

I have a National NC-98 that looks pretty nice. It's been cleaned up and aligned. A few blemishes here and there. All original knobs, some are scuffed up a bit but OK. Working very nicely. With a matching National Louspeaker and manual photocopy. Would like to trade. Looking for a Hallicrafters SR-75 or a Heathkit HW-9.

73,

Sandy, W5TVW

Boat Anchors collected, restored, modified, traded and used!

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996

From: "Dick Dillman" <ddillman@igc.apc.org>

Subject: Fwd: FS: Hallicrafters

Message-ID: <79110.ddillman@igc.apc.org>

\*NOTE\* The message below is a re-post from rec.radio.swap. All replies must go to the person making the post, not me.

----- Forwarded message begins here -----

From: TUBEBUYER <tubebuyer@aol.com >

Newsgroups: usenet.rec.radio.swap

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996

From: "TOM N LAIRD 5-5777" <TL39597@deere.com>

Subject: Got another BA

Message-ID: <DACDXX21.TL39597.653326100096176FDACDXX21@TCP30.DX.DEERE.COM>

Date: 06/24/96

From: TOM N LAIRD 5-5777

To:

Subject: Got another BA

TL39597 - DACDXX21

INTERNET - DACDXE01

-----  
Well....I picked up a pretty clean Super-PRO SP-600-JX-17 over the weekend I seems to work well (first impression). The only glitch it has is it seems to occasionally jump frequency, about 2kc's. The previous owner told me it did. Since I'm new to this beast, any you Super Pro gurus have any advice as to what to look for? Or any other pitfalls or problems?

Tom Laird WC9M Moline, IL  
tl39597@deere.com

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: "Richard L. Duell" <rduell@iac.net>  
Subject: Great Info Resource  
Message-ID: <199606250247.WAA09131@great-miami.iac.net>

I looking for a transistor cross reference on the Web (I'm looking for \*OLD\* transistor subs) I stumbled across a Web page that I immediately added to my bookmarks. It's URL is: <http://www.paranoia.com/~filip/>.

A fellow named Fil has put together a great list of resources that should be of interest to the average BAer and electronics enthusiasts in general. Among other things he has a list of over 80 sources for mail order electronic stuff (all the firms I know about, plus a lot I didn't), a list of sources for obsolete parts and a source for various kinds of electronic manuals. Plus a lot of other interesting stuff.

I don't know who Fil is, but he sure has an interesting page.

FYI - Rich - W5VDU

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: ks0f@i1.net (MIKE SANDERS)  
Subject: Halli 6 and 2 tvrtrs available  
Message-ID: <199606250326.WAA06254@mail1.i1.net>

Greetings All,

I have a friend in Florida who has a Halli HA6 and HA2 who would like to move them. Condition is reasonable as I understand from him with normal wear and marks. No manuals and missing one PA tube. Not sure which unit is missing PA tube though. If anyone is interested please contact me and I will get you in contact with the owner.

73 de KS0F Mike

ks0f@i1.net

P.S. This post is going to the boatanchors and vhf reflectors only at this time.

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Bill\_Carns-R07670Q@email.sps.mot.com

Subject: HELP QUICK

Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Subject:

Time:11:23 AM

OFFICE MEMO

HELP QUICK

Date:6/24/96

Can anyone tell me quick how to suspend my email reception of boat anchors. I am going on a trip - in about a hour - and will be gone a week. If I load up our server with a weeks worth, they will kill me.

Thanks a bunch in advance. Bill N70TQ

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996

From: bill.sorsby@dlep1.itg.ti.com (Bill Sorsby)

Subject: HRO-50 & HRO-50R1 Coils for Trade

Message-ID: <199606241557.KAA16820@lesol1.dseg.ti.com>

I have an opportunity to acquire matching coils for my HRO-60, which frees up a "D" coil (black wrinkle finish), which I'm told is for HRO-50R1, and a regular HRO-50 "B" coil. Prefer trade, but will consider sale.

Regards,

Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996

From: heikud@directcon.net (Dennis Heikura)

Subject: Invader Panel Meter

Message-ID: <199606241905.MAA00806@zeus.directcon.net>

I have a Johnson Invader 2000 with a open multimeter. Does anyone out there have a parts unit with a good meter or know where one can get a meter repaired?

Thanks and 73. Denny WB7EGG

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996

From: arc5@ix.netcom.com (David Stinson )

Subject: KW-1 Gone!

Message-ID: <199606240609.XAA15524@dfw-ix9.ix.netcom.com>

The KW-1 is gone.

A fellow in need of a shave, wearing a fedora, carrying a bullwhip and accompanied by a very nice looking young lady carted it off. They must have been worried about its output tank and filter caps since they kept talking about "the arc." I assured them it had never drawn current. He smiled and said, "tell that to the Philistines\*." I never knew they collected Collins.

The gentleman claimed the golden idol he gave me in trade was Sig Corps WW-II issue, but I have my doubts. I can't find that square, orange inspection stamp anywhere and it hasn't even been MFPe'd, although the gold does look like it, sort of...

A dumpy looking fellow in a black trenchcoat inquired shortly thereafter, but it was hard to tell what he was saying with all that mumbling and giggling under his breath. He and some rather large and sullen companions drove off after the buyer.

Does anyone have the tube line-up or power connector for a U.S.A.A.F WW-II Inca idol?

73 DE Dave Stinson AB5S  
arc5@ix.netcom.com

\*(see I Samuel, 5th cpt)

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "D. Ragsdale" <doragsda@oboe.aix.calpoly.edu>  
Subject: KWS-1 Value - Followup  
Message-ID: <9606241515.AA76643@oboe.aix.calpoly.edu>

Thanks to everyone who gave me info. on the current value of a Collins KWS-1. I now know that one is worth somewhere between \$200.00 and \$2000.00! As I mentioned in my earlier post, I'm trying to help a local fellow determine the value of his so he can decide if he wants to sell it (NOT to me, I'm not ready for a kilobuck BA yet). From the responses, it seems like \$1000.00 is a good starting point for him, and I have a list of things to check out to adjust it from there. IF he decides to sell it, I will post it to the list for him.

73

Dave  
KF6BOM

David Ragsdale, R.E.H.S.                      Risk Management  
California Polytechnic State University, San Luis Obispo, CA  
du651@oasis.calpoly.edu              or              doragsda@cymbal.aix.calpoly.edu

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Jeffrey Herman <jherman@hawaii.edu>  
Subject: military handhelds  
Message-ID: <Pine.GS0.3.93.960624091323.27929A-100000@uhunix5>

Was there a military "handheld" during the WWII era? If so, did it  
use little nuvistors or acorn tubes?

Jeff KH2PZ / KH6

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: "Joseph W. Pinner" <kc5ijd@dns1.net-connect.net>  
Subject: Re: military handhelds  
Message-ID: <199606242007.PAA06289@dns1.net-connect.net>

>Was there a military "handheld" during the WWII era? If so, did it  
>use little nuvistors or acorn tubes?

The military 'handheld' of WWII was the BC-611. It used 7 pin miniature  
tubes which were likely developed for it in particular. I suppose that  
some might say that the BC-222 (a modulated oscillator/regenerative  
receiver design of the 30's) should be considered in the category.  
However, it was never successful and was quickly abandoned as other  
radios became available. It was not quite 'handheld' either.

Nuvistors were a product of a much later generation of tube technology.  
Acorn tubes were not used in any portables of which I am familiar.

73

Joseph W Pinner  
Lafayette, LA  
KC5IJD  
EMail: kc5ijd@net-connect.net or kc5ijd@aol.com



From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Bill <billross@legend.txdirect.net>  
Subject: re: military handhelds  
Message-ID: <BMSMTP8356614162billross@mail.txdirect.net>

Jeff:

There were handhelds during WWII and they used "pencil tubes" with 1v fillaments.  
I can't recall the military Model numbers used but they were about 14-15 inches long, and about 4 inches square. I used a couple during Field Day one year for coordinating and, as I remember, they were on the 75 meter amateur band. Oh, they were pretty heavy as they had a hefty battery inside.

Bill K5LLK

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Henry van Cleef <vancleef@bga.com>  
Subject: Re: military handhelds  
Message-ID: <199606242319.SAA09600@zoom.bga.com>

As Jeffrey Herman said

>  
> Was there a military "handheld" during the WWII era? If so, did it  
> use little nuvistors or acorn tubes?  
>  
> Jeff KH2PZ / KH6  
>  
>

Handheld what? Lots of stuff got "handheld" in use in that era.

If you are fishing for a transceiver, the BC-611 "Walkie-Talkie" was one such. Battery operated, used 7-pin miniature tubes.

--

\*\*\*\*\*  
Hank van Cleef vancleef@bga.com vancleef@tmn.com  
\*\*\*\*\*

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Karan Lee Carruth <klccarru@tenet.edu>  
Subject: Re: military handhelds  
Message-ID: <Pine.OSF.3.91.960624190929.9962B-100000@beall.tenet.edu>

On Mon, 24 Jun 1996, Jeffrey Herman wrote:

> Was there a military "handheld" during the WWII era? If so, did it  
> use little nuvistors or acorn tubes?  
>

Yes, there was. It did not use either nuvistors or acorn tubes. (I don't think that nuvistors were available then)

It was the BC-611, part of the SCR-536. It used five 7-pin miniature tubes - 2 3S4s, one 1R5, one 1S5 and one 1T4. It was crystal controlled on both transmit and receive. Crystal kits were normally supplied for 50 channels in the 3.5 to 6.0 mc range. The crystals normally came in a wooden drawer that held crystals for four radios. Two other drawers also held antenna coils and tank coils. The three drawers fit into a wooden chest.

The radio itself had a 455 kc if. It had a 40 inch telescoping rod antenna which must have been really easy to break! Weight ready to operate was 3.85 pounds. Two special batteries were used which provided 1.5 volts for the filaments and 103.5 volts for the plates. All five tubes were used for receiving but only four were used for transmitting. While not very reliable by modern standards it was the ONLY "hand-held" that any country had during the war.

It suffered from two design faults. One, of course, was the relatively fragile antenna and the other was the lack of adequate waterproofing. Although both the top and the bottom of the case had gaskets, they were not very good. I think that they probably had some problems with leakage around the antenna also.

Hope this helps. One of the guys on the list has a home page with a photograph of a new BC-611 still in the box.

Lenox, WA50VG  
klccarru@tenet.edu

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Miltronix CV-591A - A Report  
Message-ID: <84023.ddillman@igc.apc.org>

Greetings, all. The CV-591A (TMC model MSR-4) has arrived from

overhaul by Rick Mish at Miltronix. I thought y'all might be interested in a report.

To review, the '591 arrived here a couple of years ago for \$10 in company with a TMC GPR-90RX. It worked, but barely. The crystal position was inop while in the manual position it was clear the unit was badly out of alignment. The top and side covers were missing. The rectifier tube had been replaced by a plug-in solid state unit. The stepper relay was intermittent in operation. The power connector was missing, the cable exiting the chassis through the hole where J2 used to be.

I asked Rick to do whatever was needed to return the unit as near as possible to operation at factory specifications. In addition, I asked him to refinish the panel in gloss black to match my Miltronix R-390A with a gloss black panel.

Rick disassembled the unit and washed the chassis. The power supply "modifications" that have been discussed in these pages were corrected. J2 was replaced and a corresponding plug and power cable were supplied. Tubes 5Y3, 12AU7, 6BE6 and 6AG5 were replaced and IERC tube shields were provided for all tubes (except the 5Y3 of course). Eight resistors and capacitors were replaced. Top and side covers were fabricated. And, of course, the front panel was refinished.

The unit arrived on Monday. A visual inspection revealed that the front panel was all I'd hoped (Mike made the pattern for future '591 restorations from my panel, which was in good shape). The chassis was beautiful to my eye, although Mike said he would have liked to get it cleaner. The wiring done by Mike was workmanlike.

It's been working for about an hour now with the R-390A. It seems to work as TMC intended. The USB/LSB stepper works without a miss, the crystal position works properly, etc., etc. I checked it on SSB first of course but it also provides good AM reception with selectable sidebands. The only small problem is that the perforated metal stock Rick used for the top and side plates is a little too "bendy". That's no problem on the small side plate but the top plate, with it's wider span between supports, is a little wavy. Still, I nice effort and certainly better than the complete absence of a top plate.

Rick's bill states the following costs.

Parts	\$ 50.00
Labor	100.00

Shipping & Ins.	50.00
	-----
Total	\$200.00

Worth every penny in my opinion, plus Rick is very easy to work with and even called periodically to give me updates on the unit.

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: kilgore@dev.tivoli.com (Jeff Kilgore)  
Subject: more BAs  
Message-ID: <9606241834.AA00545@wichita.tivoli.com>

Well, a couple more BAs arrived while I was in Houston for my 20-year high-school reunion. Received a Drake R-4 and a Heathkit HW-16 w/HG-10B VFO.

Got around to firing both up last night. I listened to the R-4 for about an hour; works well. It's about a 7.5 or 8 cosmetically; some scratched paint on the black cabinet, a slight bend in the black cabinet towards the back (looks like a little rubber mallet work will fix this), some wear on some of the knobs, including the tuning knob, and the tuning knob is now attached with a regular screw protruding rather than a set screw. The front panel itself is very nice, no marks or scratches. The PT0 is fine except for some lateral wobble that is evident only when rocking the tuning knob. This one should be restorable to very nice condition.

The HW-16 immediately breaks into audio oscillation as it warms up. Increasing the AF gain past midrange dampens and then stops the oscillation. The unit transmits into a dummy load, but power output is pretty low. The neon sidetone oscillator itself is rather chirpy. Looks like some new filter caps are definitely in order. The HG-10B works fine and seems pretty stable after just a few minutes warm-up. Both the HW-16 and the HG-10B are very nice cosmetically; no scratches or marks at all on the HG-10B, and just a couple of scratches on the HW-16. It will be nice to have such a fine specimen of my first station on the air in the near future. The bandswitch on the HW-16 is also very tight and does not make a real positive contact, but it does work.

I am awaiting the arrival any day now of a DX-60A. It's supposed to be in good condition cosmetically, and "it worked the last time I tried it."

So, right now, the repair/restoration queue contains the following items, in current order of priority:

- 1) R-390A -- Fix the AGC (bad caps, etc?). Resistance of AGC bus to ground is only 1.7 megohms. An alignment is then probably in order. Not bad cosmetically. I may attempt some cosmetic restoration, but not right away. I am torn between three options, as I would like a black 390A:
  - Buy a restored black 390A from Rick Misch.
  - Buy another 390A and restore it and refinish it in black
  - Refinish this one in blackThe second option seems to make the most sense right now.
- 2) Drake R-4 -- Fix the PTO wobble, alignment, cosmetic restoration
- 3) HW-16 -- Change the caps and do whatever else is needed, then do some minor touch-up work as necessary.
- 4) DX-60A -- Who knows until I actually see it?
- 5) Drake 2-B -- Alignment and some minor cosmetic restoration still needed.

I'll be leaving for a two-week visit to Ireland in less than a week, so this will all have to wait until I get back. I'm taking another week off from work after I get back so I can do a major rearrangement of the radio room, then I can finally get around to all my projects. Guess I've got enough to keep me busy for a while, but I know I'm going to miss some chances at some nice BA goodies while I am gone.

73,  
Jeff Kilgore, KC1MK

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Dale Braun <dale.k.braun@uwrf.edu>  
Subject: My BA Field Day experience  
Message-ID: <s1cec3b1.025@adngate.adn.uwrf.edu>

Another great Field Day is past. Gorgeous weather Saturday; rain on Sunday but no lightning so overall went well.

This is the first Field Day where I brought vintage equipment. Subject to the raised eyebrows of my techno-maniac brothers (both hams) and father (also a ham) were my RME-4350A receiver and DX40 transmitter with HG-10B VFO. Accessories included the

RME-4301 sideband slicer, homebrew T/R switch, and a homebrew solid state keyer, plus a vintage vibroplex paddle. Great set up, worked very well, made over 50 contacts on 40 meters in short order.

The only problem with the set up was harmonic output. While transmitting on 40 meters, obliterated the solid state rig trying to operate on 20 meters. No other rig there did that. Also got a little TVI from a neighbor, but very light. Also, while not a problem really, more of a "characteristic", the RME receiver would drift around slightly when coming back to receive from transmit. Not bad considering.

Next year, not sure what I'll bring. Maybe the Heathkit Mohawk and an Apache. Oh, my aching back!!

73,  
Dale  
WD9GWH

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: jml@spider.lloyd.com (Jim Lockwood)  
Subject: Re: My BA Field Day experience  
Message-ID: <m0uYL0D-001NbxC@spider.lloyd.com>

> my  
>RME-4350A receiver and DX40 transmitter with  
>HG-10B VFO. Accessories included the  
>RME-4301 sideband slicer, homebrew T/R  
>switch, and a homebrew solid state keyer, plus  
>a vintage vibroplex paddle.  
>  
> While transmitting on 40 meters,  
>obliterated the solid state rig trying to operate  
>on 20 meters.

Not to condone harmonics, but my first reaction to this is that there \*is\* justice in this world!!!! :-)

73,

Jim - km6nk

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: Richard Biddle <rbiddle@madvox.mo.ti.com>  
Subject: Re: preselector and load tuning belts for hw101 needed  
Message-ID: <31CEA30A.1C08@madvox.mo.ti.com>

For the last HW-101 I rebuilt I went down to a local pump supply store and purchased three O-rings of the appropriate diameter. Less than a buck for all three and they fit perfectly.

— —

73 de Richard, KB5WLH << The Internet - CB Radio >>  
rbiddle@madvax.mo.ti.com << For The Nineties >>

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Barry L. Ornitz" <u856010@eastman.com>  
Subject: R-390 ovens  
Message-ID: <Pine.ULT.3.91.960624115317.6394D-100000@dua150.kpt.emn.com>

According to a close friend who repaired R-390A's for the Army Security Agency in Thailand at a FLR-9 site, the ovens should be used ONLY when operating in unheated tents when the outdoor temperature was below freezing. They will "warm-up" faster with the ovens on, but you risk decreasing their operating life at the higher temperatures.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: Richard Biddle <rbiddle@madvox.mo.ti.com>  
Subject: R-390A TM manuals from Global Engineering Documents  
Message-ID: <31CEFEC3.5A1F@madvox.mo.ti.com>

I just finished a phone call to Global Engineering Documents (1-800-854-7179) and on a lark asked about a copy of the R-390A TM 11-5820-358-35 manual. They will be very happy to fix you up with one of their copies for \$93.50 with delivery in four to six weeks. If there are in any way like the JEDEC publications I have ordered in the past, they are very fine pieces of work.

Makes the Fair Radio \$15 copy look a lot better, doesn't it?

--

73 de Richard, KB5WLH  
rbiddle@madvax.mo.ti.com

<< The Internet - CB Radio >>  
<< For The Nineties >>

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: steve@hi.com (Steve Byan)  
Subject: Re: R-390A TM manuals from Global Engineering Documents  
Message-ID: <v02130508adf4b7fc5828@[140.243.30.128]>

>R-390A TM 11-5820-358-35 manual. They will be very happy to  
>fix you up with one of their copies for \$93.50 with delivery in four

The R390A TM's are available from NTIS (1-800-553-6847) at a much more reasonable cost. They take credit cards. TM 11-5820-358-35 goes for \$27 plus \$3 shipping. TM 11-5820-358-34P goes for \$19. I've forgotten what the operator's manual sells for. The quality of reproduction is great - they have the heavy-stock yellow covers and fold-out schematics and everything. Authentic Army issue.

NTIS also has the TM for the TV-2.

Regards,  
-Steve

>From a long-ago post by Roy Morgan <morgan@speckle.ncsl.nist.gov>:  
-----

Manuals for R-390A:

(All manual number are for Army, unless specified.)

TM 11-5820-358-10	"Operator's Manual, Radio Receiver R-390A/URR" 16 January 1961 (Change 1: ?, Change 2: 15 January 1965, Change 3: 25 April 1974)
TM 11-5820-358-20	"Organizational Maintenance Manual, Radio Receiver R-390A/URR" (Air Force number: TO 31R1-2URR-442)
TM 11-5820-358-34P	"Direct Support and General Support Maintenance Repair Parts and Special Tools Lists, Radio Receiver R-390A/URR" February 1972 (Supersedes TM 11-5820-358-35P, 20 March 1962, including all changes.)
TM 11-5820-358-35	"Field and Depot Maintenance Manual, Radio Receiver R-390A/URR" 8 December 1961



(Changes 1 and 2 at least were issued. It, together with the Operator's Manual above, supersedes TM 11-856A, 20 January 1956 including changes 1-6.

Comments:

Operator's Manual: This is useful. (If you don't have it, and need to carry out demolition, you're on your own.)

Organizational Maintenance Manual: 38 pages. Tells how to remove and replace sub-chassis, and not a lot more. Brief descriptions of trouble shooting.

Direct Support ... Parts and Special Tools List: 160 pages of lists of parts. Mostly useless except for 24 pages of very good photos showing parts locations.

Field and Depot Maintenance Manual: 189 pages. This is the one to have. Contains theory, detailed trouble shooting, inspection and calibration/alignment instructions, voltage and resistance diagrams, parts location illustrations, and SCHEMATICS.

Steve Byan	internet: steve@hi.com
Hitachi Computer Products (America), Inc.	
1601 Trapelo Road	phone: (617) 890-0444
Waltham, MA 02154	FAX: (617) 890-4998

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: John Kolb <jlkolb@cts.com>  
Subject: Re: R-390A TM manuals from Global Engineering Documents  
Message-ID: <Pine.SCO.3.91.960624195713.27573A-100000@sd.cts.com>

On Mon, 24 Jun 1996, Steve Byan wrote:

> The R390A TM's are available from NTIS (1-800-553-6847) at a much more  
> reasonable cost. They take credit cards. TM 11-5820-358-35 goes for \$27

Well, it's a BA only in circuit complexity, but can anyone tell me what manual numbers I would ask for for a R-1051 receiver?

John Kolb KK6IL jlkolb@cts.com

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: n5off@w5ddl.aara.org  
Subject: R-390A/Sony Jam Box Audio  
Message-ID: <401823@w5ddl.aara.org>

Well, Fair Radio is out of junker 390A audio decks, and the boss is unwilling to gut a perfectly good one for me to poor boy and audio deck (wonder why??).

With lack of a mule to hack up, I started looking for other ways to get the R-725 to sound better. First I tried a JCV stereo amp, got lots of ground loops and unexplainable (by me) problems. Scratching my head I remembered that my daughter (sssshhhhhhh!!!) has a Sony cassette Jam Box with CD line input. Idea is coming . . .

I tried the Sony and it worked great. In short it has dual 4" speakers with little tweets also, L/R line inputs, and an equalizer. I'm not sure what these things cost anymore, but I'll bet they are <\$70.

So, sans 390A deck, this is a pretty good 2nd option.

Q: Should I use a matching transformer with this rig up? I am running it off of the line circuit, jumper off, pins 10 and 11 (1/2 of the transformer) on the back term board.

73 de tom n5off

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: "Grant Youngman" <nq5t@gte.net>  
Subject: R390A Cabinet?  
Message-ID: <199606241819.NAA01233@uro.theporch.com>

Anyone out there in BA-land have a cabinet that will fit an R390A?

--- OR ---

Can you suggest a suitable manufacturer/style?

Regards ... Grant

-----  
Grant Youngman / NQ5T  
nq5t@gte.net  
[HTTP://home1.gte.net/nq5t/index.htm](http://home1.gte.net/nq5t/index.htm)

Beautiful downtown Double Oak, TX  
(near Dallas, if you must know)

-----  
From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: wt465@freenet.victoria.bc.ca  
Subject: RADIO / ELECTRONICS BOOKS FOR SALE << update >>  
Message-ID: <01I6ASMZ5WQQ8ZVOUQ@KUHUB.CC.UKANS.EDU>

Dear fellow BA lovers,

Here is what's left of my original WILD OPTIMIST book listing.

My thanks to those of you who placed orders with me.

This is my last posting for the books you see below. Any of these still hanging around after end of next week will be donated to public library.

As before, all prices are plus postage.

Bill Worthington, AA4FM/0  
1420 Ash Court  
Eudora, KS 66025

- 
- \* RADIO OPERATING QUESTIONS AND ANSWERS  
Arthur R. Nilson  
J.L. Hornung  
7th Ed, 1940, hardback, 415 pgs  
McGraw-Hill, pub  
Condition: Good  
\$8
  
  - \* RADAR ELECTRONIC FUNDAMENTALS  
TM 11-466 (War Dept Technical Manual)  
29 June 1944, softcover, 474 pgs  
GPO, pub  
Condition: Poor to fair  
\$10
  
  - \* TROUBLESHOOTING AND REPAIR OF RADIO EQUIPMENT  
TM 11-4000 (War Dept Technical Manual)

April 1945, softcover, 57 pgs  
GPO, pub  
Condition: Fair to good  
\$10

\* REFRESHER COURSE IN FUNDAMENTAL MATHEMATICS FOR BASIC  
TECHNICAL TRAINING  
Training Div, Bureau of Naval Personnel, Navy Dept  
1942, softcover, 171 pgs  
U.S. Naval Institute, pub  
Condition: Excellent  
\$8

\* RADIO UP TO THE MINUTE  
John R. Irwin  
Arthur R. Nilson  
1926, hardcover, 402 pgs  
Edward J. Clode, pub  
Condition: Good  
\$15

----- END -----

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: rjordan@overlord.dmv.com (Rick David Jordan)  
Subject: Radio Cleanup Suggestions  
Message-ID: <199606241440.KAA15086@overlord.dmv.com>

Wanted to let everybody know of the great success I have had with Clorox's new Pro 409 cleaner. I've used 409 in the past, but picked up a bottle of their new cleaner this weekend. I collect old CB's (no snickering please), and had purchased a bunch of radios from the estate of a HEAVY smoker. These radios were crusty with residue and completly yellow on the outside casings. I applied some of the new Pro 409 cleaner to one of the radios, and after a few hours of work, had a brand new looking radio! I go back over the radio with some glass cleaner from Dollar General (Family Dollar etc. cost \$1.00 ) which removes any streaks left by the Pro 409. The cleaner comes in a clear plastic spray bottle, is green in color, and has the label "PRO 409". I have yet to find anything better to clean up panels, cases, etc where you do not want to take a chance on removing markings, lettering, etc. BTW, the back panel suggests caution around bare aluminum, but the only problem I found was some streak marks. I removed the cleaner promptly and followed up with the glass cleaner to remove any streaks. As with all cleaning compounds, use some sparingly on a small section first;

don't want anyone to read this and go to town on the front panel of their prize only to have it disappear! I hope others share their success stories re: cleaning with the group. Thanks to Henry van Cleef for the ammonia suggestion on wrinkle finish... works like a charm!

Rick Jordan, WD8PSQ  
1729 N. Salisbury Blvd  
Salisbury, MD 21801  
(410) 749-1111 Ext 452

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Thomas L. Dawson" <74745.324@CompuServe.COM>  
Subject: SB-500 Manual  
Message-ID: <960624161830\_74745.324\_HHL40-1@CompuServe.COM>

Gang,

I have a Heath SB-500 I'd like to argue into operation but I have no manual and would rather not have to trace it out. (especially as it appears to have been modified). Anyone have a manual or reasonable copy thereof? Reasonable reproduction costs gladly reimbursed.

regards, Tom

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: CADV16@aol.com  
Subject: Still Looking for EV 644 Mic  
Message-ID: <960624095323\_223771232@emout09.mail.aol.com>

Still looking to purchase an Electrovoice 644 "Sound Spot" shotgun type microphone. Please advise price and condition. Thank You. Elliott/KJ7KH  
email: CADV16@AOL.COM

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: "Ray L. Mote" <rmote@rain.org>  
Subject: TV-7 "fuse" bulb, & CONGRATS ON YOUR NEW LICENSE!  
Message-ID: <Pine.SUN.3.93.960624145823.11767D-100000@coyote.rain.org>

Actually, Fair Radio had (and may still stock) both the #81 fuse bulb and the B7A bulb for the TV-7. The #81 is used on both the TV-7 and TV-10. I got both types several years ago from Fair for a reasonable price. Try

it!

BTW: Congratulations on the new license! Last I heard, you were still without a ticket. Glad to see you went for it and were successful. Will be looking to hear "KF4FOR" on the air!

73.....Ray Mote, W6RIC <rmote@rain.org> Oxnard, CA

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: kenc@smartdocs.com (Ken Corwin)  
Subject: Re: TV-7 fuse  
Message-ID: <199606250021.RAA19089@warp10.smartlink.net>

Hello, Paul-

As has been stated, a #81 miniature lamp is the correct fuse for a TV-7 tube tester. However, if you don't have a #81, use a #89. It will probably work ok as a temporary substitute.

These two lamps are identical except for design volts and amperes. #81 design volts/amps: 6.5/1.02; #89: 13.0/0.58.

I substituted a #89 for the #81 in my TV-7 this afternoon, just to see what would happen. The #81 does not glow when adjusting the line voltage to the line without a tube in a test socket. The #89 DOES glow when making this line voltage adjustment. Other than this distracting glow, nothing else appears to be unusual.

Any landing you can walk away from...

Ken Corwin (kenc@smartdocs.com) Santa Clarita, Calif.

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>  
Subject: TV-7 fuse, Hallicrafters Grey Paint  
Message-ID: <Pine.A32.3.91.960624102624.24305B-100000@ppdu.nrl.navy.mil>

What bulb can be used as a fuse for the TV-7 tube tester. Will a #89 bulb work?

Has anyone been able to duplicate Hallicrafters grey enamel paint for touch ups. I have an SR-150 and an SX-110 that I am trying to match the grey paint.

Thanks, Paul Bernhardt, KF4FOR

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: stever@cybercomm.net (Stephan Rashkin)  
Subject: Re: TV-7 fuse, Hallicrafters Grey Paint  
Message-ID: <199606241704.NAA27394@raven.cybercomm.net>

>What bulb can be used as a fuse for the TV-7 tube tester. Will a #89  
>bulb work?

\*\*\*\*\*

I believe a #81 auto bulb is the correct replacement according to  
Dan Nelson, TV-7 Guru..

73,  
Steve, WA2NHZ

\*\*\*\*\*

Steve Rashkin, WA2NHZ  
Howell, New Jersey 07731

E-mail: stever@raven.cybercom.com

\*\*\*\*\*

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: MODSTEPH@ACS.EKU.EDU  
Subject: Wafer switch revisited  
Message-ID: <01I6A748QUPE000ZLY@ACS.EKU.EDU>

Thanks to the many suggestions I got from y'all concerning  
broken wafer switch repair, I got the strongest epoxy I could find  
and started glueing the thing back together.

Interesting phenomenon: I glued each piece exactly into its  
break line where each fit exactly... until I got to the last glue  
job of essentially putting two halves together - to find that for  
some reason the sum of the parts came out greater than the original  
whole...

It did not fit exactly in spite of the care I gave being sure  
the lesser parts were correct... but this is late '40's technology  
(Harvey-Wells "Bandmaster") so the slight differences in the re-glued

switch and its original state do not seem to matter as far as the switch contacts are concerned.

Log it up to another encounter with the "IPOIO"factor, well known to most engineers: the "Innate Perversity Of Inanimate Objects..."

Anyway, once I find why I am getting no grid drive, I'll let you know how/if the switch works. Thanks to all for the input.

73, Al N5AIT  
modsteph@acs.eku.edu

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: David Metz <metzd@cfw.com>  
Subject: What is an emitted RF watt  
Message-ID: <2.2.32.19960624030817.0069a774@milo.cfw.com>

Thanks gang. I've gotten several really great responses and feel the question is answered beyond what I ever had expected.

This 600 plus volume encyclopedia of BA experience is pretty special!

Now if I could just find the leaky cap in the AVC circuit of my BC779 that fast.

73's Dave  
metzd@cfw.com  
Staunton, VA

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Deane D McIntyre" <dmcintyr@acs.ucalgary.ca>  
Subject: Re: What is an emitted RF Watt?  
Message-ID: <9606240312.ZZ12916@ds1.acs.ucalgary.ca>

In message <2.2.32.19960623233451.006a3770@milo.cfw.com> writes:

>

> AT the risk of asking a dumb and dumber question (a no talkie but have  
> quite a bit of BA stuff) we have a local TV station that advertises 5  
> million watts, Virginia's most powerful station. Well... that has sort of  
> haunted me considering that I sort of assumed that maybe VOA and DOD were  
> about the only ones capable of such power. I had a recent chance to ask one  
> of the station engineers the big question: how is that possible? (Maybe  
> water cooled walk in tubes?) His answer : the antenna provides 10db of gain



> and therefore 10 times 500K is 5 million emitted watts.

Thus is a bit off topic, but the engineer is right. TV and FM broadcasting stations usually use effective radiated power (ERP) when talking about station power. ERP is transmitter output power multiplied by antenna gain. Losses in the transmission line are also taken into account, but lets assume that they are small for the moment. A 1kW transmitter running into a antenna with 10 dB gain would give an ERP of 10 kW; into a antenna with 20 dB gain would give an ERP of 100 kW (remember that dB is a log scale). The max power (vidio) a US or Canadian UHF television station can run is 5 million watts (5000 kW); I believe that this can be attained using a 55 kW transmitter and a antenna with 19-20 dB gain. Bobbi, did I get this more or less right?

BCB and shortwave stations on the other hand use the actual transmitter power (more or less) when talking about power, so a 50 kW station actually has a 50 kW transmitter; some BCB and longwave stations in Europe and the middle east actually have 2000 kW transmitters (or do they run two 1000 kW units in parallel?).

73, Deane D McIntyre VE6BP0  
dmcintyr@acs.ucalgary.ca

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: Bob Moody <bmoody@e-tex.com>  
Subject: What is an emitted RF Watt?  
Message-ID: <m0uY28R-0002Y5C@e-tex.com>

>Subject: What is an emitted RF Watt?

>water cooled walk in tubes?) His answer : the antenna provides 10db of gain  
>and therefore 10 times 500K is 5 million emitted watts.

If you construct a giant copper sphere around the emitting antenna, all the RF emitted is what you just collected no matter which direction your beam points.

Washington D.C. figures emitted watts the same as their budgets, I.E. they use a 10 DB pad!!

Bob K7iRK

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Gary N. Anderson" <ganderso@iu.net>  
Subject: Re: What is an emitted RF Watt?  
Message-ID: <199606240327.XAA15161@bb.iu.net>

At 06:39 PM 6/23/96 -0500, you wrote:

His answer : the antenna provides 10db of gain  
>and therefore 10 times 500K is 5 million emitted watts. I admit that I  
>understand very little about transmitting matters, but that seems to me to  
>be a rather heroic assumption. Could someone post some comments?  
>73's Dave  
>metzd@cfw.com  
>Staunton, VA

VHF and UHF TV stations are all licensed by the FCC in terms of their  
EFFECTIVE RADIATED POWER (ERP). This is the power that the transmitter would  
have to output to produce a given signal if the antenna had no gain. TV  
stations don't have any reason to radiate power straight up (no viewers), so  
they use an antenna that redirects the power along the earth's horizon. In  
this way, they get the same results from a 500,000 watt transmitter and 10  
dB antenna gain that they would with a 5,000,000 watt transmitter and no  
antenna gain. The station saves the added cost of a larger transmitter AND  
(MOST IMPORTANT) the power company bills.

BTW, at least in the 80's, the maximum ERP allowed for a TV station is 5MW.

If you look at the FCC station license, the ERP will be the power listed.  
(along with, if I remember correctly, the antenna gain) [I used to work in  
the field MANY years ago] Furthermore, for advertising purposes, larger  
numbers always win, so the ERP is usually what is advertised.

This is my first post and realize that this is only marginally within the  
charter. On the other hand, those transmitters are the ULTIMATE boatanchor.  
To work on them, you open the door and walk in.....I do miss them...73's

Gary N. Anderson====>Palm Bay, FL====>Amateur Call:  
WA4IVF  
(Also history, astronomy, cycling, ad infinitum.)

"Always do right. This will gratify some people and astonish the rest."  
Mark Twain

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: w7ni@teleport.com (Stan Griffiths)

Subject: Re: What is an emitted RF Watt?

Message-ID: <199606240817.BAA06128@desiree.teleport.com>

> AT the risk of asking a dumb and dumber question (a no talkie but have  
>quite a bit of BA stuff) we have a local TV station that advertises 5  
>million watts, Virginia's most powerful station. Well... that has sort of  
>haunted me considering that I sort of assumed that maybe VOA and DOD were  
>about the only ones capable of such power. I had a recent chance to ask one  
>of the station engineers the big question: how is that possible? (Maybe  
>water cooled walk in tubes?) His answer : the antenna provides 10db of gain  
>and therefore 10 times 500K is 5 million emitted watts. I admit that I  
>understand very little about transmitting matters, but that seems to me to  
>be a rather heroic assumption. Could someone post some comments?  
>73's Dave  
>metzd@cfw.com  
>Staunton, VA

Hi Dave,

I am sure you will get several answers to your question about TV transmitter power. I am certainly not an expert in the broadcast field but I do know that TV broadcast transmitters are rated in "ERP" which mean "Effective Radiated Power". This term includes the gain of the antenna and the explanation you have sounds correct to me as I understand it. I always thought it was sort of a joke, too, with the "power mad" TV people just wanting to sound bigger than they actually are. (This could backfire if any real evidence of harmful RF radiation from TV transmitters to local residents ever surfaces . . . )

I do not think "ERP" is used in AM broadcast and I don't know if they use it in FM broadcast or not.

I have always regarded the "ERP" method of rating TV transmitter power to be similar to the "wind chill factor" method of rating the outside temperature . . .

Stan w7ni@teleport.com

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996

From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>

Subject: Wichita KS Sale

Message-ID: <199606242347.SAA06962@legend.txdirect.net>

A co-worker is in Wichita KS this week cleaning up the house of a deceased relative. There is supposedly a basement full of stuff including several 8 ft racks of assorted equipment. Tubes, parts, perhaps some military items,

Bob O'Neale  
1268 El Monte  
Wichita KS 78216  
(316) 522-3015

73, gary

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<<<<<<<<<<< T00 many projects, NOT enough time! >>>>>>>>>>>>
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From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>  
Subject: Re: Winnipeg Manitoba surplus suppliers  
Message-ID: <199606241830.LAA14427@mozart.bcit.bc.ca>

Colin

From boatanchors@theporch.com Mon Jun 24 14:43:56 1996  
From: "Russell G. Schroeder" <russ@eng.mc.xerox.com>

Subject: WTB: TCS-12 Rcvr Power Connector  
Message-ID: <31CE9B63.167EB0E7@eng.mc.xerox.com>

Hollowstaters,

I would like to find a power connector from a TCS-12 receiver.  
I believe the connector from a TCS-5 thru TCS-14 receivers are  
identical if anyone has one. TIA.

73 Russ W2DYY

russ@eng.mc.xerox.com  
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Russell G. Schroeder            Phone: 716-422-0699  
Xerox Corporation            FAX: 716-422-7532  
800 Phillips Rd, 207-03B    email: russ@eng.mc.xerox.com  
Webster, NY 14580

From boatanchors@theporch.com Mon Jun 24 23:06:35 1996  
From: "Thomas A. Adams" <103360.2133@CompuServe.COM>  
Subject: WTB; Heathkit Seneca  
Message-ID: <960624234345\_103360.2133\_JHL164-1@CompuServe.COM>

Greetings, Troops.

The message title pretty well says it. Looking for a Seneca in working or  
reasonably restorable condition.

Prefer that it be fairly close to Wisconsin; shipping on this thing would  
probably be a real bear!

E-MAIL me direct at 103360.2133@compuserve.com .

Tom, K9TA